

Claims

1. A value document, in particular bank note, having a value document substrate and at least two different feature substances for checking the value document, characterized in that the first feature substance is incorporated into the volume of the substrate of the value document, and the second feature substance is applied to the value document substrate in the form of a coding.
2. The value document according to claim 1, characterized in that the first feature substance is distributed substantially uniformly within the volume of the value document substrate.
3. The value document according to claim 1 or 2, characterized in that a third feature substance different from the first feature substance is incorporated into the volume of the substrate of the value document.
4. The value document according to claim 3, characterized in that the third feature substance is distributed substantially uniformly within the volume of the value document substrate.
5. The value document according to at least one of claims 1 to 4, characterized in that the first and/or third feature substance is formed by a luminescent substance or a mixture of luminescent substances.
6. The value document according to at least one of claims 1 to 5, characterized in that the second feature substance is formed by a luminescent substance or a mixture of luminescent substances.
7. The value document according to at least one of claims 1 to 6, characterized in that at least one of the feature substances is formed on the basis of a host lattice doped with rare earth elements.
8. The value document according to at least one of claims 1 to 7, characterized in that a fourth feature substance is applied to the value document, preferably printed thereon, which is different from the second feature substance.

9. The value document according to claim 8, characterized in that the fourth feature substance is formed by a feature substance absorbent in the infrared spectral range, preferably in that the fourth feature substance absorbs significantly in the spectral range above about 1.2 μm , especially preferably in the spectral range from about 1.5 μm to 2.2 μm .
10. The value document according to claim 9, characterized in that the fourth feature substance is substantially colorless or has only weak inherent color in the visible spectral range, preferably in that the fourth feature substance does not yet have significant absorption even in the near infrared up to a wavelength of about 0.8 μm .
11. The value document according to claim 8, characterized in that the fourth feature substance is formed by a magnetic substance, an electroconductive substance or a substance with an optically variable effect.
12. The value document according to at least one of claims 8 to 11, characterized in that the fourth feature substance is printed on the value document in the form of a coding.
13. The value document according to at least one of claims 1 to 12, characterized in that at least one coding extends over a predominant part of a surface of the value document, in particular over the substantially total surface of the value document.
14. The value document according to at least one of claims 1 to 13, characterized in that at least one coding, in particular the coding formed by the second marking substance, is a bar code.
15. The value document according to at least one of claims 1 to 14, characterized in that at least one coding represents information about the value document, the information being present in encrypted or unencrypted form.
16. The value document according to at least one of claims 1 to 15, characterized in that the value document substrate comprises a printed or unprinted cotton fiber paper.

17. The value document according to at least one of claims 1 to 16, characterized in that the value document substrate comprises a coated or printed or unprinted plastic film.
18. The value document according to at least one of claims 1 to 17, characterized in that the second feature substance is printed on the value document substrate.
19. The value document according to at least one of claims 1 to 17, characterized in that the second feature substance is applied to the moist paper web, in particular sprayed on, in the form of the coding during papermaking.
20. A method for producing a value document according to any of claims 1 to 19, characterized in that the first feature substance is incorporated into the volume of the value document substrate, and the second feature substance is applied to the value document substrate in the form of a coding.
21. The production method according to claim 20, characterized in that the second feature substance is printed on the value document substrate.
22. The production method according to claim 20, wherein the value document substrate is formed by a printed or unprinted cotton paper, characterized in that the second feature substance is sprayed onto the moist paper web during papermaking.
23. The production method according to at least one of claims 20 to 22, characterized in that a third feature substance is incorporated into the value document substrate.
24. The production method according to at least one of claims 20 to 23, characterized in that a fourth feature substance is applied to the value document substrate, in particular printed thereon.
25. A method for checking or processing a value document according to any of claims 1 to 19, wherein the authenticity of the value document is checked and a value recognition of the document carried out by using at least one characteristic property of the first and/or second feature substance for checking the authenticity

of the value document, and the coding formed by the second feature substance for value recognition, currency recognition, etc., of the value document.

26. The method according to claim 25, characterized in that at least one characteristic property of the first feature substance is used for checking the authenticity of the value document by a user of a first user group.
27. The method according to claim 25 or 26, characterized in that at least one characteristic property of the second feature substance is used for checking the authenticity of the value document by a user of a second user group.
28. The method according to at least one of claims 25 to 27, characterized in that at least one characteristic property of the first and/or third feature substance is used for checking the authenticity of the value document.
29. The method according to any of claims 25 to 28, characterized in that the second feature substance is formed by a luminescent substance, and the second feature substance is irradiated with radiation from its excitation range, the emission is determined at at least one wavelength from the emission range of the second feature substance, and the check of authenticity and/or the value recognition is carried out on the basis of the determined emission.
30. The method according to claim 29, characterized in that the second feature substance is irradiated with visible and/or infrared radiation, and its emission is determined in the infrared spectral range.
31. The method according to claim 29 or 30, characterized in that the irradiation is performed with a light-emitting diode or laser diode.